

DISEASE MODELS

With the worldwide increase of certain disease conditions, particularly metabolic and cardiovascular, the need for new ways to explore the mechanism of disease has become paramount. Charles River Laboratories' Disease Models Program is designed to seek out, introduce, and make available rodent models of common human diseases. The initial focus of the program will be on four disease areas: Cardiovascular, Metabolism, Renal, and Oncology. The table below describes the characteristics of the current disease models offered by Charles River.

Utilizing our existing facilities, scientific staff and worldwide distribution network, Charles River will ensure that these models are widely available to the biomedical research community.

Surgical Services

Physiological monitoring of these disease models is made possible through our Surgical Services Group. Additionally, the surgical services group can induce disease conditions in naive rodent models and surgically alter most rodent species produced by Charles River to your specifications.

Disease Models

Characteristic	Dahl/SS	DIO	Fawn Hooded	JCR	SHHF	SHR	SHROB	Stroke Prone	ZDF	ZSF1	Zucker	Surgical Models
Insulin Resistance	+	+	-	+	+	+	+	+	+	+	+	
Hyperinsulinemia	+	+	-	+	+	+	+	+	+	+	+	
Type 2 Diabetes	-	-	-	-	+	-	-	-	+	+	-	
Fasting Hyperglycemia	-	+	-	-	+	-	-	-	+	+	-	
Hypertension	+	+	5	-	+	+	+	+	-	+	-	7
Obesity	-	+	-	+	+	-	+	-	+	+	+	
Cardiovascular Disease	-	-	-	2,3	1	+	+	+	+	1	+	2,4,5
Hypertriglyceridemia	+	+	+	+	+	+	+	+	+	+	+	
Hypercholesterolemia	+	-	+	+	+	+	+	+	+	+	+	
Nephropathy	+	-	+	+	+	-	+	+	+6	+	+6	

- + Exhibits the characteristic
- Does not exhibit the characteristic
- 1 = Congestive Heart Failure
- 2 = Ischemic Lesions
- 3 = Atherosclerotic Lesions
- 4 = Cardiac Hypertrophy & Vascular Lesions
- 5 = Systemic and Pulmonary Hypertension
- 6 = Hydronephrosis (Interference)
- 7 = 5/6 Nephrectomy



For more information, please contact us at 1.877.CRIVER.1 or www.criver.com.